

Certificate of Analysis

Gracefruit Ltd

Raw Material Code: **R00086**

Product Description: **Blackcurrant Oil, Refined**

INCI Name: **Ribes Nigrum Seed Oil**

EINECS Number: **Not Listed**

CAS Number: **97676-19-2**

Date of Production: **May-2016**

Best Before: **May-2018**

Lot Number: **L000210957**

Retested date:

Analytical Details	Result
Appearance	Clear, mobile, yellow liquid
Specific Gravity @ 20°C	0.927
Refractive index @ 20°C	1.480
Free Fatty Acid (% as Oleic)	0.08
Peroxide Value (MeqO ₂ /kg)	1.4
Saponification Value	189.1
Unsaponifiable Matter	1.7
Colour (Gardner)	4.4
Acid Value (mg KOH/g)	0.16
Heavy Metals - Arsenic	Complies
Heavy Metals - Cadmium	Complies
Heavy Metals - Lead	Complies
Heavy Metals - Mercury	Complies
BENZO (A) PYRENE (ug/kg)	0.1
Sum of B(a)P, B(a)A, B(a)F and Chrysene	0.6
Sum of Dioxins and Furans (as WHO-PCDD/F-TEQ/G) ¹ (PG/G)	<0.172
Sum of Dioxins, Furans, Dioxin-like PCB's (WHO-PCDD/F-TEQ/G) ¹ (PG/G)	<0.275
PCB's (SUM 28,52,101,138,153,180)(Total 6 DIN-PCB)(NG/G)	<1.0
Moisture & Volatile Matter (%)	<0.1
Salmonella (cfu/g)	Not Detected
Yeast and Moulds	<1
E. coli (cfu/g)	Not Detected
Staphylococcus Aureus (cfu/g)	Not Detected
Total Viable Count or Total Plate Count (cfu/g)	<10

Palmitic Acid	C16:0	6
Stearic Acid	C18:0	1.6

Oleic Acid	C18:1	13
Linoleic Acid	C18:2	46.6
Alpha Linolenic Acid	C18:3	13
Gamma Linolenic Acid	C18:3	14.3
Stearidonic Acid	C18:4	2.8